

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. - 24. cancel

25. (new): A metal laminate comprising between two outer metal sheets an adhesive polymer layer, characterised in that the adhesive polymer layer comprises cross-linked polyethylene or a copolymer thereof, co-grafted with a silane compound and with an unsaturated carboxylic acid and/or a derivative thereof.

26. (new): Metal laminate according to claim 25, wherein the surface of the first outer metal sheet is greater than the surface of the second outer metal sheet.

27. (new): Metal laminate according to claim 25, wherein the outer metal sheets are made of a metal chosen from the group consisting in steel and aluminium.

28. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer comprises more than 50 % in weight of cross-linked grafted polyethylene.

29. (new): Metal laminate according to claim 28, wherein the adhesive polymer layer comprises 80 to 95 % in weight of cross-linked grafted polyethylene.
30. (new): Metal laminate according to claim 25, wherein the cross-linked polyethylene is grafted with an unsaturated carboxylic acid containing 1 to 6 carboxylic groups and/or a derivative thereof.
31. (new): Metal laminate according to claim 30, wherein the cross-linked polyethylene is grafted with maleic acid and/or a derivative thereof.
32. (new): Metal laminate according to claim 31, wherein the cross-linked polyethylene is grafted with maleic acid anhydride.
33. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer comprises 0 to 80 % in weight of high-density polyethylene.
34. (new): Metal laminate according to claim 33, wherein the adhesive polymer layer comprises 50 to 80 % in weight of high-density polyethylene.
35. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer comprises 20 to 95 % in weight of elastomer.

36. (new): Metal laminate according to claim 35, wherein the adhesive polymer layer comprises 20 to 45 % in weight of elastomer.
37. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer also comprises 0.5 to 10 % in weight of a copolymer of styrene and an unsaturated carboxylic acid and/or a derivative thereof.
38. (new): Metal laminate according to claim 37, wherein the adhesive polymer layer comprises a styrene- maleic acid anhydride copolymer.
39. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer further comprises 0.1 to 5 % in weight of an epoxy resin.
40. (new): Metal laminate according to claim 25, wherein the organosilane compound is chosen from the group consisting of vinylalcoxysilanes, dialcoxysilanes, trialcoxysilanes and tetraalcoxysilanes.
41. (new): Metal laminate according to claim 25, wherein the adhesive polymer layer further comprises a flame retardant agent.

42. (new): Metal laminate according to claim 25, wherein the adhesive polymer has a gel content of at least 15 % in weight.
43. (new): Metal laminate according to claim 42, wherein the adhesive polymer has a gel content of at least 30 % in weight.
44. (new): Metal laminate according to claim 25, wherein the polymer layer comprises an intermediate layer of cross-linked non-grafted polyethylene.
45. (new): Process for the manufacture of a metal laminate according to claim 25 comprising the steps consisting in :
- a. Providing a first and a second metal sheet;
 - b. Applying a polymer composition comprising cross-linked polyethylene or a copolymer thereof, co-grafted with a silane compound and with an unsaturated carboxylic acid and/or a derivative thereof onto the first metal sheet;
 - c. Applying the second metal sheet onto the polymer layer applied onto the first metal sheet to obtain a metal laminate; and
 - d. Heating the metal laminate to complete the adhesion.

46. (new): Process according to claim 45, wherein the polymer composition is previously extruded to form a polymer film.
47. (new): Process according to claim 45, wherein the polymer film is directly extruded onto the first metal sheet.
48. (new): Automotive body part comprising the metal laminate according to claim 25.